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Clustalw



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SEQUENCE ANALYSIS

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CLUSTAL W (1.82) Multiple Sequence Alignments

Sequence format is Pearson
 Sequence 1: O'Donnell_hola 729 bp
 Sequence 2: McHenry_hola 879 bp
 Start of Pairwise alignments
 Aligning...
 Sequences (1:2) Aligned. Score: 97
 Guide tree file created: [/ebi/extserv/old-work/clustalw-20031020-19030540.dnd]
 Start of Multiple Alignment
 There are 1 groups
 Aligning...
 Group 1: Sequences: 2 Score: 13585
 Alignment Score 5794
 CLUSTAL-Alignment file created [/ebi/extserv/old-work/clustalw-20031020-19030540.aln]

Your Multiple Se

10/20/2003

http://www.ebi.ac.uk/services/mp/clustalw-20031020-19030540.html

Exhibit C

clustalw-20031020-19030540.aln

CLUSTAL W (1.82) multiple sequence alignment

O'Donnell_hola	-----	ATGGTCATCGCCTTCACCGGGGATCCCTTCCTGGCGGGGAGGCCCTCTTAGAGGAGGCA	60
McHenry_hola			
O'Donnell_hola	-----	AGGCTTAGGGGCTTCCCGCTTCACCGAGCCACCCCGGAGGCCCTGGCCAGGCCCTC	120
McHenry_hola			
O'Donnell_hola	-----	-----ATGCTGACCTGAGGAGGTGGGGAGGCG	30
McHenry_hola		GCOCGGGGCTTTCGGGGGGGGGGCGGATGCTGACCTGAGGAGGTGGGGAGGCG	180
O'Donnell_hola	-----	-----	
McHenry_hola		*****	
O'Donnell_hola	-----	GAGTGAAGGCCCTAAGCCCTTTTGAAAGCGTGCCCGAGGGCTCCCGTCCTCCTC	90
McHenry_hola		GAGTGAAGGCCCTAAGCCCTTCCTGGAAGCGTGCCCGAGGGCTCCCGTCCTCCTC	240
O'Donnell_hola	-----	-----	
McHenry_hola		*****	
O'Donnell_hola	-----	CTGGACCTTAGCCCAAGCCCTCCCGGGGGCCCTTACCGGAACCGGGAAGGGGGAC	150
McHenry_hola		CTGGACCTTAGCCCAAGCCCTCCCGGGGGCCCTTACCGGAACCGGGAAGGGGGAC	300
O'Donnell_hola	-----	-----	
McHenry_hola		*****	
O'Donnell_hola	-----	TTCCCCACCCCAAGGGGAGGACCTGTGCGGCACCTGGAAACCGGGCCCAAGGCCCTG	210
McHenry_hola		TTCCCCACCCCAAGGGGAGGACCTGTGCGGCACCTGGAAACCGGGCCCAAGGCCCTG	360
O'Donnell_hola	-----	-----	
McHenry_hola		*****	
O'Donnell_hola	-----	GGGCTCAGGCTCCCGGGGGGGTGGCCAGTACCTGGCTCCCTGGAGGGGACCTCGAG	270
McHenry_hola		GGGCTCAGGCTCCCGGGGGGGTGGCCAGTACCTGGCTCCCTGGAGGGGACCTCGAG	420
O'Donnell_hola	-----	-----	
McHenry_hola		*****	
O'Donnell_hola	-----	GCCCTGGAGCGGGAGCTGGAGAGCTTGCCTCCTCCCCACCCCTCACCCCTGGAGAAG	330
McHenry_hola		GCCCTGGAGCGGGAGCTGGAGAGCTTGCCTCCTCCCCCTCCCTCACCCCTGGAGAAG	480
O'Donnell_hola	-----	-----	
McHenry_hola		*****	
O'Donnell_hola	-----	GTGGAGAGGTGTGGCCCTGAGGCCCCCTCAGGGCTTGACCTGGTGGCTCCGTC	390
McHenry_hola		GTGGAGAGGTGTGGCCCTGAGGCCCCCTCAGGGCTTGACCTGGTGGCTCCGTC	540
O'Donnell_hola	-----	-----	
McHenry_hola		*****	
O'Donnell_hola	-----	CTGGAGAAGGACCCCAAGGAGGCCCTCTCGGCCCTAGGGCCCTCAAGGAGGGGGAG	450
McHenry_hola		CTGGAGAAGGACCCCAAGGAGGCCCTCTCGGCCCTAGGGCCCTCAAGGAGGGGGAG	600

clustalw-20031020-19030540.dnd

{O'Donnell hola:0.01372,McHenry_hola:0.01372}:

O'Donnell, hol
McHenry, hol

Please contact support@ebi.ac.uk with any problems or suggestions regarding this site.

<http://www.ebi.ac.uk/service/cluster/clustalw-2003.1020-19030540.html>

10/20/2003